

## ADJUSTABLE SPANNER

### FIELD OF THE INVENTION

The present invention relates to spanners, and particularly to an 5 adjustable spanner with a stronger strength for suffering from a larger twisting force.

### BACKGROUND OF THE INVENTION

In general, an adjustable spanner must be used to screw various kinds 10 of screwing element. As a result, the adjustable spanner is easy to be destroyed. Thus, it is very necessary that the adjustable spanner has a stronger strength for suffering from stronger twisting force. In one prior art, the spanner body of the adjustable spanner has a sliding track for receiving a movable jaw. The track has a reverse  $\Omega$  slot. However 15 the sliding track is in contact with the movable jaw in a small area so that the structure strength is low. Moreover, in some prior art, an enhancing structure is installed at an upper side of the movable jaw, but most of the stress is concentrated in the neck portion of the movable jaw so that the effect of enhancing the structure is low, and thus the movable jaw be 20 destroyed as it is used for a longer time.

### SUMMARY OF THE INVENTION

Accordingly, the primary object of the present invention is to provide an adjustable spanner which comprises a holding portion installed at one 25 end of the spanner body; a retaining jaw installed at another end of the

spanner body; a movable jaw installed to the retaining jaw; the movable jaw being slidable along a slide track at a head portion of the spanner body. Two sides of the upper end of the slide track are formed with respective auxiliary projecting track. Two lower sides of a lower edge of the 5 movable jaw are formed with respective slopes so as to enhance the strength of the structure. The slopes are configured to be matchable to the two auxiliary projecting tracks. Each auxiliary projecting track is extended from a respective upper surface of the slide track with an angle between 60 to 85 degrees so as to enhance the strength of the adjustable 10 spanner.

The various objects and advantages of the present invention will be more readily understood from the following detailed description when read in conjunction with the appended drawing.

## 15 BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is an exploded perspective view of the present invention.

Fig. 2 is a lateral view of the present invention wherein the adjustable spanner is assembled.

20 Fig. 3 is a perspective view of the adjustable spanner of the present invention, wherein the adjustable spanner is assembled.

## DETAILED DESCRIPTION OF THE INVENTION

In order that those skilled in the art can further understand the present invention, a description will be described in the following in details.

25 However, these descriptions and the appended drawings are only used to

cause those skilled in the art to understand the objects, features, and characteristics of the present invention, but not to be used to confine the scope and spirit of the present invention defined in the appended claims.

With reference to Figs. 1 and 2, the adjustable spanner of the present invention is illustrated. The adjustable spanner has the following element.

A holding portion 2 is at one end of the spanner body 1.

A retaining jaw 4 is at another end of the spanner body 1.

A movable jaw 3 is installed to the retaining jaw 4. The movable jaw 10 3 is slidable along a slide track 5 at a head portion of the spanner body 1.

Two sides of the upper end of the slide track 5 are formed with respective auxiliary projecting tracks 6.

Two lower sides of a lower edge of the movable jaw 3 are formed with respective slopes 7 so as to enhance the strength of the structure. The 15 slopes 7 are configured to be matchable to the two auxiliary projecting tracks 6. Each auxiliary projecting track 6 is extended from a respective upper surface of the slide track 5 with an angle between 60 to 85 degrees so as to have a preferred enhancing effect.

In use of the present invention, if a larger twisting force is applied to 20 the spanner body 1. Since the lower end of the movable jaw 3 has two slopes 7 so as to increase the contact area between two auxiliary projecting tracks 6 and the movable jaw 3 so that the force can be transferred effectively and the spanner body 1 can suffer a larger twisting force. Moreover, the movable jaw 3 is fixed to the spanner body 1 with a larger 25 area so that it has a preferred effect than the prior art spanner with a

reverse  $\Omega$  shape.

The present invention is thus described, it will be obvious that the same may be varied in many ways. Such variations are not to be regarded as a departure from the spirit and scope of the present invention, and all 5 such modifications as would be obvious to one skilled in the art are intended to be included within the scope of the following claims.